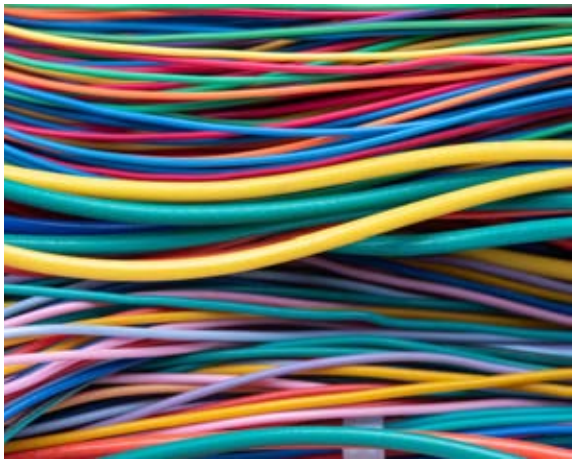
Repela®

Solutions for W&C



Termite & Rodent Repellent

Masterbatches

AVERSION TECHNOLOGIES

High Performance Repellent Masterbatches

PROTECTION THROUGH BEHAVIOR MODIFICATION

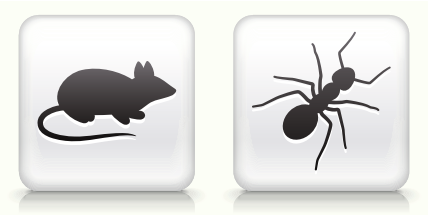
We live with millions of other animals – some by choice, others unavoidably. This creates all sorts of frictions. We want the nuisance pests out of our lives; we want to keep our pets safe; we want our crops protected; we want to keep our loved ones and ourselves safe. But protection can often mean harm to other animals. Other times it means vigilance, or inconvenience, or inaccessibility.

At Aversion Technologies, our guiding principle is protection through behavior modification. Our products prevent rodents from chewing on wires by making the wire unattractive; to make dangerous liquids unpalatable; to make pests choose to not eat ornamental plants.

This concept of harmless protection became the philosophy, the animating idea, behind Aversion Technologies. Founded in 2005, we are the only company in the world that exclusively offers products to modify behavior, thereby providing protection through avoidance. We believe that behavioral change can be accomplished through conditioning in the form of distasteful – but harmless – consequences. We have found that it rarely takes more that one or two encounters with our products to cause an avoidance reaction in the future. We aspire to provide protection for people, plants and products through the addition of these harmless substances to potentially dangerous products.

PROTECTION BY CHANGING BEHAVIOR AND WITHOUT CAUSING ANY HARM?
WHAT A GREAT IDEA!

MADE IN U.S.A.



Repela® for Rodents

Anti-Rodent Masterbatch

Repela® for Rodents Masterbatch combines powerful aversives for deterring animals from chewing compounded materials, such as electric and fiber optic cables, plastic pipes, foam insulation, and many other materials. Repela® for Rodents is the anti-rodent solution for damage to virtually all polymers.

The combination of repellents and deterrents makes Repela® for Rodents the most effective additive in the world for protecting plastics from rodent damage.

MAIN FEATURES

- EVA-based which makes Repela® compatible with PVC, LDPE, LLDPE, HDPE, LSOH/HFFR, XLPE, EPDM, PP, ABS, and others.
- Repela® mixes uniformly with base polymer at normal processing temperatures
- Non-toxic, non-hazardous,non-dangerous,environmentally friendly and low odor
- In line with REACH and RoHS (SGS Testing & Control Services Singapore)
- Effectiveness test available (Texas A&M University)
- Biocidal Masterbatches product type 19 available

HOW IT WORKS

What the research has proven is that animals chew on plastic materials because they look good, smell good and taste good. Repela® alters that attractiveness in the following four ways:

First, when the animal bites into the plastic, they will experience an extremely foul-tasting material.

Second, this foul-taste experience is combined with a extraordinarily pungency that causes severe distress to the mucosa of the animal, making the mouth, nose and eyes burn.

Third, Repela® has a distinct odor that animals will now associate with the bad experience. This leads to behavior modification and animals avoid these products in the future.

Fourth, the fear response and unpleasant reaction is also communicated to other animals in the vicinity.

TYPICAL APPLICATIONS

Automotive Cables
Domestic building wires and cables
Lighting and alarm cable networks
Military cables
Railway cables

Repela® for Insects

Anti-Termite Masterbatch

Repela® for Insects is a powerful insect repellent Masterbatch which, when incorporate into a polymer product, protects from insect damage. This Masterbatch is especially effective against termites.

MAIN FEATURES

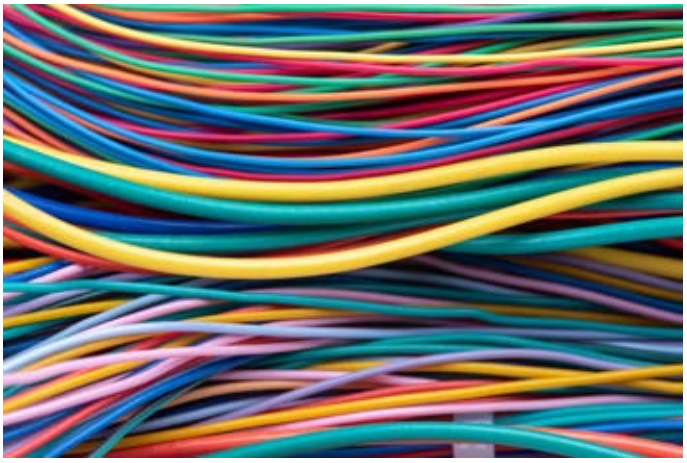
- EVA-based which makes Repela® compatible with PVC, LDPE, LLDPE, HDPE, LSOH/HFFR, XLPE, EPDM, PP, ABS, and others.
- Repela® mixes uniformly with base polymer at normal processing temperatures
- Non-toxic, non-hazardous,non-dangerous,environmentally friendly and low odor
- In line with REACH and RoHS (SGS Testing & Control Services Singapore)
- Effectiveness test available (BAM University Germany)
- Biocidal Masterbatches product type 19 available

HOW IT WORKS

The active ingredients involved, while harmless to mammals, cause nervous system disruption in insects. Repela® for Insects acts as a barrier to prevent insects such as termites and agriculturally harmful insects from damaging polymer-based products and the surrounding environment. As an agricultural mulch, Repela® for Insects protects strawberries, zucchini, and young tomato plants from insect attack. Repela® for Insects prevents fire ants from making nests in electrical boxes. Added to sheeting and foams, Repela® for Insects blocks termites from passage. Tests conducted by the Federal Institute for Materials Research and Testing in Berlin, Germany confirm the effectiveness of Repela® for Insects in preventing termite damage to LDPE films. Repela® for Insects is the anti-termite, anti-insect solution.

TYPICAL APPLICATIONS

Wires & Cables
Agricultural mulch
Fruit and vegetable shipping boxes
Electrical wires
Fiber optic cables
Plastic pipes
Flower pots



Repela® Combi

Anti-Termite and Anti-Rodent Masterbatch

Repela® Combi Masterbatch combines powerful deterrents that effectively protect compounded materials from damage by rodents, termites, and other insects. Widely used in such applications as electric and fiber optic cables, plastic pipes, foam insulation, plastic bags, and many other product, Repela® Combi joins together the deterrents found in Repela® for Rodents and Repela® for Insects to offer the widest range of protection. This is the complete anti-rodent, anti-termite solution.

Effectiveness tests BAM & TAMU

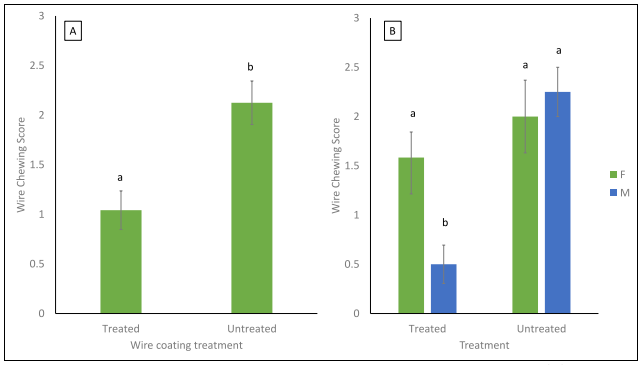


Figure 1: Wire chewing scores for rats exposed to treated or untreated wires (A), and the differences observed between genders for both treatments (B).

Fig.02: Placement of test product (wood in LDPE film) in test container (left) with consequent burial in substrate (right).

www.aversiontech.com

American Headquarters

Aversion Technologies, Inc.
1125 West Street, Suite 328
Annapolis, Maryland 21401 U.S.A.
T: +1-202-657-6300
E: service @ aversiontech.com

European Headquarters

Aversion Technologies Europe S.L
C/ Vista Bella, 31 P.B.A
Barcelona, 08022 Spain
T: +34-935-247-747
E: xsola @ aversiontech.com